

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

20FC

Applicant:

Volkmar WEHNER et al.

Patent No.: 6,794,517 **B2** 

Attorney Docket No.: 38005-0164

Serial No.:

10/092,889

Issue Date: September 21, 2004

Filing Date:

March 8, 2002

Examiner: S. Wright

Title:

BIS(TRIFLUOROMETHYL)HYDANTOINS AS INTERMEDIATES

FRO PHARMACEUTICALLY ACTIVE INGREDIENTS

## REQUEST FOR CERTIFICATE OF CORRECTION PURSUANT TO 37 C.F.R. § 1.322

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Certificate NOV 1 2 2004 of Correction

Applicants hereby request a Certificate of Correction, pursuant to 37 C.F.R. §1.322, to correct errors that are present in the patent incurred through the fault of the Patent and Trademark Office ("PTO"). Attached is Form PTO/SB/44, which reflects the changes listed below:

Column 18, line 27, delete "X s" and insert -- X is--

Column 18, line 32, delete "COOH a metal s it of COOH," and insert -COOH, a metal salt of COOH,--

Column 18, line 37, after "wherein" delete "the"

Column 18, line 52, delete "X," and insert --X',--.

The following item is evidence that the errors were incurred through the part of the Applicant and the PTO:

 A copy of the Examiner's Amendment that accompanied the Notice of Allowance mailed May 13, 2004.

11/10/2004 NNGUYEN2 00000106 6794517

01 FC:1811

100.00 BP

and the way

The required filing fee under §1.20(a) is enclosed. Applicants believe the appropriate filing fee is enclosed, however, the Commissioner is hereby authorized to charge any deficiency or to credit any overpayment to Deposit Account No. 08-1641.

Please send the Certificate of Correction to:

Heller Ehrman White & McAuliffe, LLP 1666 K Street, N.W., Suite 300 Washington, DC 20006

Applicant requests a print copy of the correction cover page to Patent No. 6,794,517.

Respectfully submitted,

Date: Movember 9, 2000

Patricia D. Granados Reg. No. 33,614
Attorney for Applicant

Customer No. 26633

Heller Ehrman White & McAuliffe LLP 1666 K Street, N.W., Suite 300 Washington, DC 20006

Telephone:

(202) 912-2000

Facsimile:

(202) 912-2020

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: 6,794,517 B2

DATED: September 21, 2004

INVENTOR(S): Volkmar WEHNER et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Column 18, line 27, delete "X s" and insert --X is--

Column 18, line 32, delete "COOH a metal s it of COOH," and insert -- COOH, a metal salt of COOH,-

Column 18, line 37, after "wherein" delete "the"

Column 18, line 52, delete "X," and insert --X',--

MAILING ADDRESS OF SENDER:

Heller Ehrman White & McAuliffe

1666 K Street, N.W., Suite 300

Washington, D.C. 20006

PATENT NO. 6,794,517 62

No anal copies

Application/Control Number: 10/092,889

**Art Unit: 1626** 

Page 2

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul M. Booth on May 10, 2004.

The application has been amended as follows:

Please amend the claims as shown on the following pages:

Claims 1-6 (Canceled).

- 7. (currently amended) The hydantoin of claim <u>16</u>, wherein  $R^1$  is  $(C_1-C_6)$ -alkyl,  $(C_3-C_7)$ -cycloalkyl or  $(C_3-C_7)$ -cycloalkyl- $(C_1-C_4)$ -alkyl.
- 8. (previously presented) The hydantoin of claim 7, wherein R<sup>1</sup> is isobutyl or cyclopropylmethyl.
- 9. (original) The hydantoin of claim 7, wherein the carbon atom carrying the R<sup>1</sup> residue has an S configuration.
- 10. (currently amended) The hydantoin of claim  $\underline{16}$ , wherein the carboxylie acid derivative  $\underline{X}$  is a  $(C_1-C_6)$ -alkyl carboxylate ester.

Claims 11-12 (Canceled).

13. (currently amended) The process of claim <u>22</u>, wherein the reaction is carried out in an inert solvent and at a temperature from about 20°C to about 80°C.

Claims 14-15 (Canceled).

16. (New) A hydantoin having the formula:

$$F_3C$$
 $N$ 
 $R^1$ 
 $N$ 
 $N$ 
 $N$ 

in any stereoisomeric or tautomeric form,

wherein  $R^1$  is hydrogen or an unsubstituted or substituted residue selected from the group consisting of  $(C_1-C_6)$ -alkyl,  $(C_2-C_6)$ -alkenyl,  $(C_2-C_6)$ -alkynyl,  $(C_3-C_7)$ -cycloalkyl- $(C_1-C_4)$ -alkyl,  $(C_6-C_{12})$ -aryl,  $(C_6-C_{12})$ -aryl- $(C_1-C_4)$ -alkyl, heteroaryl and heteroaryl- $(C_1-C_4)$ -alkyl,

wherein X is COOH, a metal salt of COOH, an ammonium salt of COOH, a C<sub>1</sub>-C<sub>6</sub> alkyl carboxylate ester, a benzyl carboxylate ester, -CONH<sub>2</sub>, -CN, -CHO, or -CH<sub>2</sub>OH or a salt or derivative thereof, wherein said derivative is an ester, an amide, a nitrile, an aldehyde or a hydroxymethyl group.

17. (New) A hydantoin having the formula:

$$F_3C$$
 $N$ 
 $R^1$ 
 $R^2$ 

wherein  $R^1$  and  $R^2$  independently are selected from the group consisting of hydrogen or an unsubstituted or substituted residue selected from the group consisting of  $(C_1-C_6)$ -alkyl,  $(C_2-C_6)$ -alkenyl,  $(C_2-C_6)$ -alkynyl,  $(C_3-C_7)$ -cycloalkyl,  $(C_3-C_7)$ -cycloalkyl- $(C_1-C_4)$ -alkyl,  $(C_6-C_{12})$ -aryl,  $(C_6-C_{12})$ -aryl- $(C_1-C_4)$ -alkyl, heteroaryl and heteroaryl- $(C_1-C_4)$ -alkyl,

wherein X is COOH, a metal salt of COOH, an ammonium salt of COOH, a C<sub>1</sub>-C<sub>6</sub> alkyl carboxylate ester, a benzyl carboxylate ester, -CONH<sub>2</sub>, -CN, -CHO, or -CH<sub>2</sub>OH or a salt or derivative thereof, wherein said derivative is an ester, an amide, a nitrile, an aldehyde or a hydroxymethyl group.

18. (New) The hydantoin according to claim 16, wherein X is COOH, or a salt thereof a metal salt of COOH, or an ammonium salt of COOH.

- 19. (New) The hydantoin according to claim 17, wherein X is COOH or a salt thereof a metal salt of COOH, or an ammonium salt of COOH.
- 20. (New) The hydantoin according to claim 16, wherein X is an ester or an amide a  $C_1$ - $C_6$  alkyl carboxylate ester, a benzyl carboxylate ester, or -CONH<sub>2</sub>.
- 21. (New) The hydantoin according to claim 17, wherein X is an ester or an amide a C<sub>1</sub>-C<sub>6</sub> alkyl carboxylate ester, a benzyl carboxylate ester, or -CONH<sub>2</sub>.
- 22. (New) A process for preparing a hydantoin according to claim 17, which comprises reacting the compound of formula II with a compound of formula III

$$F_3C$$
 $N$ 
 $O$ 
 $C(CH_3)_3$ 
 $C$ 
 $N$ 
 $R$ 
 $III$ 

wherein R' is  $-C(R^1)(R^2)-X'$ ,

wherein  $R^1$  and  $R^2$  independently are selected from the group consisting of hydrogen or an unsubstituted or substituted residue selected from the group consisting of  $(C_1-C_6)$ -alkyl,  $(C_2-C_6)$ -alkenyl,  $(C_2-C_6)$ -alkynyl,  $(C_3-C_7)$ -cycloalkyl,  $(C_3-C_7)$ -cycloalkyl- $(C_1-C_4)$ -alkyl,  $(C_6-C_{12})$ -aryl,  $(C_6-C_{12})$ -aryl- $(C_1-C_4)$ -alkyl, heteroaryl and heteroaryl- $(C_1-C_4)$ -alkyl, and

wherein X' is selected from the group consisting of a carboxylic acid ester, an amide, a nitrile, an aldehyde and a hydroxymethyl group, a C<sub>1</sub>-C<sub>6</sub> alkyl carboxylate ester, a benzyl carboxylate ester, -CONH<sub>2</sub>, -CN, -CHO, or -CH<sub>2</sub>OH.

23. (new) The hydantoin of claim 17, wherein the carboxylic acid derivative  $\underline{X}$  is a  $(C_1-C_6)$ -alkyl carboxylate <u>ester</u>.

PTO/SB/17 (01-03)
Approved for use through 07/31/2006. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

	ons are required to respond to a collection of information unless it displays a valid OMB control numb  Complete if Known					
FEE TRANSMITTAL	Application Number	10/092,889 now 6,794,517				
HOY 0 9 2004 g for FY 2005	Filing Date	March 8, 2002				
Effective 10/012003. Patent fees are subject to annual revision.	First Named Inventor	Volkmar WEHNER et al.				
Applicant claims small entity status. See 37 CFR 1.27	Examiner Name	S. Wright				
	Art Unit	1626				
TOTAL AMOUNT OF PAYMENT (\$) 100.00	Attomey Docket No.	38005-0164				

TOTAL AMOUNT OF PAYMENT (\$) 100.00	Attorney Docket No. 38003-0164							
METHOD OF PAYMENT (check one)	FEE CALCULATION (continued)							
☐ Credit card ☐ Money Order ☐ Other ☐ None	3. ADDITIONAL FEES							
☐ Deposit Account								
Deposit Account Number 08-1641 (Docket No. 38005-0164)		Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description			Fee Paid
Deposit Account Heller Ehrman White & McAuliffe LLP	1051 1052	130 50	2051 2052	65 25	Surcharge	- late filing fee or - late provisional		
Name	1053	130	1053	130	or cover sh Non-Engli			
The Commissioner is authorized to: (check all that apply)	1812	2,520	1812	2,520	For filing a request for ex parte reexamination			
☐ Charge fee(s) indicated below ☐ Credit any overpayments	1804	920*	1804	920*	Requesting			
☐ Charge any additional fee(s) during the pendency of this application	1805	1,840*	1805	Examiner action 1,840* Requesting publication of SIR after Examiner action				
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1251	110	2251	55	Extension for reply within first month			
FEE CALCULATION 1252 430 2252 215 Extension for reply within second month				econd	•••			
1. BASIC FILING FEE	1253	980	2253	490	Extension for reply within third month			
Large Entity Small Entity Fee Description Fee Paid Fee Fee Fee Fee	1254	1,530	2254	765	Extension for reply within fourth month			
Code (\$) Code (\$)	1255	2,080	2255	1,040	Extension month	for reply within f	fifth	
1001 790 2001 395 Utility filing fee	1401	340	2401	170	Notice of Appeal			
1002 350 2002 175 Design filing fee	1402	340	2402	170	Filing a brief in support of an appeal			
1003 550 2003 275 Plant filing fee	1403	300	2403	150	Request for oral hearing			
1004 790 2004 395 Reissue filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding			
1005 160 2005 80 Provisional filing fee	1452	110	2452	55	Petition to revive - unavoidable			
SUBTOTAL (1) (\$)	1453	1,370	2453	685	Petition to revive - unintentional			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE .	1501	1,370	2501	685	Utility issue fee (or reissue)			
Fee from Extra Claims below Fee Paid	1502	490	2502	245	Design issue fee			
Total Claims -20** =	1503	660	2503	330	Plant issue fee			
Independent Claims x 88 =	1460	130	1460	130	Petitions to the Commissioner			
Multiple Dependent 300 =	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)			
Large Entity Small Entity Fee Description Fee Fee Fee Fee	1806	180	1806	180	Submission of Information Disclosure			
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021	40	8021	40	Stmt  Recording each patent assignment per			
1201 88 2201 44 Independent claims in excess of 3	1809	790	2809	395	property (times number of properties)			
·					Filing a submission after final rejection (37 CFR 1.129(a))			
1203 300 2203 150 Multiple dependent claim, if not paid	1810	790	2810	395	For each additional invention to be examined (37 CFR 1.129(b))			
1204 88 2204 44 **Reissue independent claims over original patent	<sup>-</sup> 1801	790	2801	395	Request for Continued Examination (RCE)			
1205 18 2205 9 **Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application			
SUBTOTAL (2) (\$)	Other fee (specify) Certificate of Correction 100						100	
**or number previously paid, if greater: For Reissues, see above	* Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)100					(\$)100		
SUBMITTED BY Complete (if applicable)								
Name (Print/Type) Patricia D. Granados Registration No. 33 683 Telephone 202-912-2000								-2000